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1 Decentralized orchestration of composite web services

Girish B. Chafle, Sunil Chandra, Vijay Mann, Mangala Gowri Nanda

May 2004 WWW Alt. '04: Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters

Publisher: ACM

Full text available: [pdf\(166.96 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 42, Downloads (12 Months): 206, Citation Count: 9

Web services make information and software available programmatically via the Internet and may be used as building blocks for applications. A composite web service is one that is built using multiple component web services and is typically specified ...

Keywords: BPEL4WS, code partitioning, composite web services, decentralized orchestration

2 Quantifying and Improving the Availability of High-Performance Cluster-Based Internet Services

Kiran Nagaraja, Neeraj Krishnan, Ricardo Bianchini, Richard P. Martin, Thu D. Nguyen

November 2003 SC '03: Proceedings of the 2003 ACM/IEEE conference on Supercomputing

Publisher: IEEE Computer Society

Full text available: [pdf\(306.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 73, Citation Count: 0

Cluster-based servers can substantially increase performance when nodes cooperate to globally manage resources. However, in this paper we show that cooperation results in a substantial availability loss, in the absence of high-availability mechanisms. ...

3 Testing of java web services for robustness

Chen Fu, Barbara G. Ryder, Ana Milanova, David Wonnacott

July 2004 ACM SIGSOFT Software Engineering Notes, Volume 29 Issue 4

Publisher: ACM

Full text available: [pdf\(264.32 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 129, Citation Count: 3

This paper presents a new compile-time analysis that enables a testing methodology for white-box coverage testing of error recovery code (i.e., exception handlers) in Java web services using compiler-directed fault injection. The analysis allows compiler-generated ...

Keywords: def-use testing, exceptions, java, test coverage metrics

4 Testing of java web services for robustness

Chen Fu, Barbara G. Ryder, Ana Milanova, David Wonnacott
July 2004 ISSTA '04: Proceedings of the 2004 ACM SIGSOFT international symposium on Software testing and analysis

Publisher: ACM

Full text available:  pdf(264.32 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 129, Citation Count: 3

This paper presents a new compile-time analysis that enables a testing methodology for white-box coverage testing of error recovery code (i.e., exception handlers) in Java web services using compiler-directed fault injection. The analysis allows compiler-generated ...

Keywords: def-use testing, exceptions, java, test coverage metrics

5 Advanced fault analysis in web service composition

L. Ardissono, L. Console, A. Goy, G. Petrone, C. Picardi, M. Segnan, D. Theseider Dupré
May 2005 WWW '05: Special interest tracks and posters of the 14th international conference on World Wide Web

Publisher: ACM

Full text available:  pdf(37.64 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 49, Citation Count: 0

Currently, fault management in Web Services orchestrating multiple suppliers relies on a local analysis, that does not span across individual services, thus limiting the effectiveness of recovery strategies. We propose to address this limitation by employing ...

Keywords: diagnosis, fault management, web service composition

6 Realizing fault resilience in Web-server cluster

Chu-Sing Yang, Mon-Yen Luo
November 2000 Supercomputing '00: Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)

Publisher: IEEE Computer Society

Full text available:  pdf(223.68 KB)  Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 19, Citation Count: 3

Today, a successful Internet service is absolutely critical to be up 100 percent of the time. Server clustering is the most promising approach to meet this requirement. However, the existing Web server-clustering solutions merely can provide high availability ...

7 Toward Flexible Messaging for SOAP-Based Services

Geoffrey Fox, Shrideep Pallickara, Savas Parastatidis
November 2004 SC '04: Proceedings of the 2004 ACM/IEEE conference on Supercomputing

Publisher: IEEE Computer Society

Full text available:  pdf(247.58 KB) Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 147, Citation Count: 0

NaradaBroker provides a messaging abstraction that allows it to provide message-related capabilities in a transparent fashion. These capabilities include message-based security, time and causal ordering, compression, virtualization of transport protocol ...

Keywords: Performance, Design, Reliability, Distributed middleware, Grid computing, Web Services, service oriented architectures

8 Providing dependability for web services

Jeferson L. R. Souza, Frank Siqueira

March 2008 SAC '08: Proceedings of the 2008 ACM symposium on Applied computing

Publisher: ACM

Full text available:  pdf(819.32 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 19, Citation Count: 0

Web services have been widely employed to allow interoperability among applications and/or technologies. However, the standard technologies and protocols which provide the foundation for Web Services do not address issues such as fault tolerance and ...

Keywords: dependability, fault tolerance, web services

9 Deploying and managing Web services: issues, solutions, and directions

Qi Yu, Xumin Liu, Athman Bouguettaya, Brahim Medjahed

May 2008 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 17 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(903.96 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 61, Downloads (12 Months): 61, Citation Count: 0

Web services are expected to be the key technology in enabling the next installment of the Web in the form of the Service Web. In this paradigm shift, Web services would be treated as first-class ...

Keywords: Interoperability, Service-oriented computing, Web service management system

10 An environment for flexible advanced compensations of Web service transactions

Michael Schäfer, Peter Dolog, Wolfgang Nejdl

April 2008 ACM Transactions on the Web (TWEB), Volume 2 Issue 2

Publisher: ACM

Full text available:  pdf(640.01 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 142, Downloads (12 Months): 142, Citation Count: 0

Business to business integration has recently been performed by employing Web service environments. Moreover, such environments are being provided by major players on the technology markets. Those environments are based on open specifications for transaction ...

Keywords: Web services, compensations, forward-recovery, transactions

11 Autonomic system management in mobile grid environments

Michael Messig, Andrzej Goscinski

January 2007 ACSW '07: Proceedings of the fifth Australasian symposium on ACSW frontiers - Volume 68, Volume 68

Publisher: Australian Computer Society, Inc.

Full text available:  pdf(702.98 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 197, Citation Count: 0

Mobile device integration in grid environments is a challenge for many researchers. Due to the transient nature of mobile devices, service management is a critical, but often overlooked area of research. We propose a distributed broker responsible for ...

Keywords: autonomic principles, grid computing, mobile devices

12 QoS-Aware service management for component-based distributed applications

Jingwen Jin, Klara Nahrstedt

May 2008 ACM Transactions on Internet Technology (TOIT), Volume 8 Issue 3

Publisher: ACM

Full text available:  pdf(582.43 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 103, Downloads (12 Months): 103, Citation Count: 0

Component-based software development has evolved from a tightly coupled style to a loosely coupled style in the recent few years. The paradigm shift will eventually allow heterogeneous systems to interoperate in open networks such as the Internet and ...

Keywords: QoS, SOA, Service composition, application-level routing, fault tolerance, multicast, overlay networks, service management

13 [Communications of the ACM: Volume 51 Issue 7](#)

 July 2008 issue Volume 51 Issue 7

Publisher: ACM

Full text available:  pdf(6.54 MB)  digital edition Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 102, Downloads (12 Months): 102, Citation Count: 0

14 [A survey of linguistic structures for application-level fault tolerance](#)

 Vincenzo De Florio, Chris Blondia

April 2008 ACM Computing Surveys (CSUR), Volume 40 Issue 2

Publisher: ACM

Full text available:  pdf(2.23 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 374, Downloads (12 Months): 374, Citation Count: 0

Structures for the expression of fault-tolerance provisions in application software comprise the central topic of this article. Structuring techniques answer questions as to how to incorporate fault tolerance in the application layer of a computer program ...

Keywords: Language support for software-implemented fault tolerance, reconfiguration and error recovery, separation of design concerns, software fault tolerance

15 [Business-to-business interactions: issues and enabling technologies](#)

B. Medjahed, B. Benatallah, A. Bouguettaya, A. H. H. Ngu, A. K. Elmagarmid

May 2003 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 12 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available:  pdf(558.34 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 182, Downloads (12 Months): 1023, Citation Count: 15

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business ...

Keywords: B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

16 [A taxonomy for multimedia service composition](#)

 Klara Nahrstedt, Wolf-Tilo Balke

October 2004 MULTIMEDIA '04: Proceedings of the 12th annual ACM international conference on Multimedia

Publisher: ACM

Full text available:  pdf(272.55 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 94, Citation Count: 5

The realization of multimedia systems still heavily relies on building monolithic systems that need to be reengineered for every change in the application and little of which can be reused in subsequent developments even for similar applications. Hence, ...

Keywords: multimedia service composition, service-oriented architectures

17 A context-based mediation approach to compose semantic Web services

 Michael Mrissa, Chirine Ghedira, Djamal Benslimane, Zakaria Maamar, Florian Rosenberg, Schahram Dustdar

November 2007 ACM Transactions on Internet Technology (TOIT), Volume 8 Issue 1

Publisher: ACM

Full text available:  pdf(450.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 80, Downloads (12 Months): 500, Citation Count: 0

Web services composition is a keystone in the development of interoperable systems. However, despite the widespread adoption of Web services, several obstacles still hinder their smooth automatic semantic reconciliation when being composed. Consistent ...

Keywords: Web services, composition, context, mediation, semantics

18 Assured service quality by improved fault management

 Andreas Hanemann, Martin Sailer, David Schmitz

November 2004 ICSOC '04: Proceedings of the 2nd international conference on Service oriented computing

Publisher: ACM

Full text available:  pdf(209.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 227, Citation Count: 1

The paradigm shift from device-oriented to service-oriented management has also implications to the area of event correlation. Today's event correlation mainly addresses the correlation of events as reported from management tools. However, a correlation ...

Keywords: event correlation, fault management, service level agreements, service management

19 Detection and resolution of atomicity violation in service composition

 Chunyang Ye, S. C. Cheung, W. K. Chan, Chang Xu

September 2007 ESEC-FSE '07: Proceedings of the the 6th joint meeting of the European software engineering conference and the ACM SIGSOFT symposium on The foundations of software engineering

Publisher: ACM

Full text available:  pdf(394.03 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 162, Citation Count: 0

Atomicity is a desirable property that safeguards application consistency for service compositions. A service composition exhibiting this property could either complete or cancel itself without any side effects. It is possible to achieve this property ...

Keywords: atomicity, behavior constraint, implicit interaction, web services

20 Towards fault tolerance in web services compositions

 Nuno Laranjeiro, Marco Vieira

September 2007 EFTS '07: Proceedings of the 2007 workshop on Engineering fault tolerant systems

Publisher: ACM

Full text available:  pdf(242.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 130, Citation Count: 0

Many businesses are now moving towards the use of composite web services that are based on a collection of web services working together to achieve an objective. Although they are becoming business-critical elements, current development support tools ...

Keywords: composition, diversity, fault tolerance, web services

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